

### Abstract of the Disclosure

An apparatus of identifying software components includes a user interface unit for obtaining object dependency and  
5 object usages information from a user; a unit of defining  
dependency weights for calculating weights of inter-object  
dependency based on the object dependency and the usages  
information; a unit of generating an object dependency network  
for representing the degrees of object importance and inter-  
10 object dependency by using the dependency weights; and a unit  
of identifying software components for controlling the  
component identification process by using the object  
dependency network and the threshold values inputted by a user.